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## INDEX TO AMERICAN BOTANICAL LITERATURE

1916-1920

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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- Anderson, H. W.** *Dendrophoma* leaf blight of strawberry. Univ. Illinois Agr. Exp. Sta. Bull. 229: 127-136. f. 1-3. J1 1920.
- Beals, A. T.** *Tortula pagorum* (Milde) De Not., near Harpers Ferry, W. Va. Bryologist 23: 33-35. pl. 1 + f. 1. 14 Je 1920.
- Bequaert, J.** A new host of *Laboulbenia formicarum* Thaxter, with remarks on the fungous parasites of ants. Bull. Brooklyn Ent. Soc. 15: 71-79. 1920.
- Blake, S. F.** Nine new plants of the genus *Stylosanthes*. Proc. Biol. Soc. Wash. 33: 45-53. 24 J1 1920.  
All American.
- Braun, H.** Presoak method of seed treatment: a means of preventing seed injury due to chemical disinfectants and of increasing germicidal efficiency. Jour. Agr. Research 19: 363-372. pl. 69-82 + f. 1-9. 15 J1 1920.
- Braunton, E.** The California tree yucca (*Yucca brevifolia* Engelm.) Jour. Internat. Gard. Club 3: 567-571. 1920. [Illust.]
- Brenner, W.** Über die Variationsbewegungen der *Oxalis*-Blättchen. Sv. Bot. Tidsk. 10: 374-410. f. 1-20. 1916.  
Studied *O. tetraphylla* Cav. and *O. acetosella* L.
- Britton, N. L.** *Cephalanthus occidentalis*. Addisonia 5: 17, 18. pl. 171. 30 Je 1920.

- Brown, F. B. H.** The refraction of light in plant tissues. Bull. Torrey Club **47**: 243-260. f. 1-4. 23 Je 1920.
- Brown, N. A.** A *Pestalozzia* producing a tumor on the sapodilla tree (*Achras Zapota* L.) Phytopathology **10**: 383-394. f. 1-5. 2 S 1920.  
*Pestalozzia scirrofaciens* sp. nov.
- Bryan, G. S.** Early stages in the development of the sporophyte of *Sphagnum subsecundum*. Am. Jour. Bot. **7**: 296-303. f. 1-24. 6 Au 1920.
- Chapman, G. H.** Tobacco investigations. Progress report. Mass. Agr. Exp. Sta. Bull. 195: 1-38. pl. 1-2 + f. 1-2. 1920.
- Coe, H. S., & Martin, J. N.** Sweet-clover seed. U. S. Dept. Agr. Bull. 844: 1-39. pl. 1-5. 1920.
- Collins, J. F.** Notes on resistance of chestnuts to the blight. Phytopathology **10**: 368-371. f. 1-2. 18 Au 1920.
- Davidson, A.** New or noteworthy additions to the flora of S. California. Bull. S. Calif. Acad. Sci. **19**: 54-56. Jl 1920.  
Includes *Allium montigenum* sp. nov.
- Denslow, H. M.** Further reflections of an orchid-hunter. Jour. N. Y. Bot. Gard. **21**: 145-156. Au 1920.
- Díaz, C.** Explotación industrial del jume. Univ. Tucuman. Inf. Dept. Investig. Industr. **7**: 3-17. 1918. [Illust.]  
Jume is the product of various Amarantaceae, especially *Spirostachys*.
- Drummond, J. R., & Hutchinson, J.** A revision of *Isopyrum* (Ranunculaceae) and its nearer allies. Kew Bull. **1920**: 145-169. 1920.  
New American combinations in *Enemion* (4) and *Semiaquilegia* (1).
- Edgerton, C. W., & Moreland, C. C.** Tomato Wilt. Louisiana Agr. Exp. Sta. Bull. 174: 1-54. f. 1-54. f. 1-19. Ap 1920.
- Fairman, C. E.** The ascomycetous flora of human excreta. pp. 1-10. pl. 1 + f. 3. Lyndonville, N. Y. 30 Jl 1920.  
Includes *Cyclindrocolla faecalis* sp. nov.
- Fawcett, H. S.** *Pythiacystis* and *Phytophthora*. Phytopathology **10**: 397-399. 2 S 1920.
- Fernald, M. L.** *Pyrola rotundifolia* and *P. americana*. Rhodora **22**: 121-123. 3 Au 1920.  
Forms *P. rotundifolia* var. *americana* (Sweet), comb. nov.
- Harlan, H. V.** Daily developments of kernels of Hannchen barley from flowering to maturity at Aberdeen, Idaho. Jour. Agr. Research **19**: 393-429. pl. 83-91 + f. 1-17. 2 Au 1920.
- Harlan, H. V.** Development of barley kernels in normal and clipped spikes and the limitations of awnless and hooded varieties. Jour. Agr. Research. **19**: 431-472. f. 1-13. 2 Au 1920.

- Harper, R. M.** A week in eastern Texas. *Bull. Torrey Club* **47**: 289-317. 9 Au 1920.  
Phytogeographic observations.
- Haynes, C. C.** Illustrations of six species of *Riccia*, with the original descriptions. *Bull. Torrey Club* **47**: 279-287. *pl.* 10-13. 9 Au 1920.
- Hedgcock, G. G.** New species and relationships in the genus *Coleosporium*. *Mycologia* **12**: 182-198. 7 Au 1920.  
Includes *Peridermium floridanum*, sp. nov., and several new combinations.
- Hedgcock, G. G., & Hunt, N. R.** Notes on *Peridermium Harknessii*. *Phytopathology* **10**: 395-397. 2 S 1920.
- Heering, W.** Systematische und pflanzen-geographische Studien über die *Baccharis*-Arten des aussertropischen Südamerikas. *Jahrb. Hamburg. Wissensch. Anst.* **31** (Beih. 3): 65-173. 24 F 1915.  
Includes 15 new species.
- Henry, A., & Flood, M. G.** The Douglas firs: a botanical and silvicultural description of the various species of *Pseudotsuga*. *Proc. Roy. Irish Acad.* **35 B**: 67-92. *pl.* 12-14. 17 My 1920.
- Herre, A. C.** Alaskan Notes. *Bryologist* **23**: 37-38. 14 Je 1920.  
List of lichens collected by H. Heath and F. Hess.
- Hitchcock, A. S.** Report on a recent trip to British Guiana. *Jour. N. Y. Bot. Gard.* **21**: 129-137. *pl.* 248-249. J1 1920.
- Hoehne, F. C.** Caracteres botanicos, historia e cultura das cinchonas. pp. 1-39. Sao Paulo. 1919.
- Hoehne, F. C.** O que vendem os hervanarios da cidade de S. Paulo [Brazil]. *Serv. Sanit. Est. Sao Paulo II.* **4**: 1-248. 5 Ap 1920.  
[Illust.]
- Hoehne, F. C.** Vegetaes anthelminticos ou enumeraçao dos vegetaes empregados na medicina popular como vermifugos. pp. 1-231. Sao Paulo. 10 Mr 1920. [Illust.]
- Hoffstein, B. H.** Notes on henna. *Am. Jour. Pharm.* **92**: 543-547. Au 1920.
- Holdt, F. V.** Die *Eucalyptus*-Pflanzungen in Californien. *Mitteil. Deutsch. Dendr. Ges.* **22**: 80-83. 1913.
- Holm, T.** Internal glandular hairs in *Dryopteris*. *Rhodora* **22**: 89-91. 18 Je 1920.
- Holzinger, J. M.** *Bartramiopsis Lescurii*. *Bryologist* **23**: 35-36. 14 Je 1920.
- House, H. D.** Conservation of wild flowers. *Conservationist* **3**: 119-131. Au 1920. [Illust.]

- Hurd, A. M.** Effect of unilateral monochromatic light and group orientation on the polarity of germinating *Fucus* spores. Bot. Gaz. **70**: 25-50. f. 1-2. 24 Jl 1920.
- Jennings, O. E.** *Impatiens pallida* forma *speciosa* f. nov. Ohio Jour. Sci. **20**: 204. Ap 1920.
- Kidder, N. T.** *Solidago lepida*, var. *fallax* in Knox County, Maine. Rhodora **22**: 77-78. 18 Je 1920.
- Knowlton, C. H., Ripley, W. S., & Weatherby, C. A.** Second report of the committee on floral areas. Rhodora **22**: 80-89. 18 Je 1920.  
Considers Polypodiaceae, Schizaeaceae and Osmundaceae of New England.
- Koehne, E.** Eine neue Robinie. Mitteil. Deutsch. Dendr. Ges. **22**: 1-3. 1913.  
*Robinia Hartwigii*, sp. nov.
- Lewis, F. J., & Tuttle, G. M.** Osmotic properties of some plant cells at low temperatures. Ann. Bot. **34**: 405-416. f. 1-3. Jl 1920.
- Lillo, M.** Las Asclepiadáceas Argentinas. Rev. Soc. Argentina Ci. Nat. **4**: 410-437. 31 D 1919.  
Includes *Hickenia*, gen. nov., and 9 new species.
- Livingston, B. E., & Koketsu, R.** The water-supplying power of the soil as related to the wilting of plants. Soil Sci. **9**: 469-485. Je 1920.
- Lurie, A., & Pring, G. H.** Curiosities of plant life. Jour. Internat. Gard. Club **3**: 165-177, 303-315, 627-642. 1919. [Illust.]
- MacDougal, D. T.** The physical factors in the growth of the tomato. Bull. Torrey Club **47**: 261-269. 23 Je 1920.
- MacDougal, D. T., & Spoehr, H. A.** The components and colloidal behavior of plant protoplasm. Proc. Am. Phil. Soc. **59**: 150-170. 1920.
- Macmillan, H. G., & Byars, L. P.** Heat injury to beans in Colorado. Phytopathology **10**: 365-367. f. 1. 18 Au 1920.
- Martin, W. H.** The relation of sulfur to soil acidity and to the production of potato scab. Soil Sci. **9**: 393-408. f. 1-5. Je 1920.
- Merrill, E. D.** *Camphorina* vs. *Cinnamomum*. Bot. Gaz. **70**: 84-85. 24 Jl 1920.
- Moxley, G. L.** Notes, chiefly nomenclatorial, on Southern California ferns. Bull. S. Calif. Acad. Sci. **19**: 56-57. Jl 1920.  
Includes two new combinations in *Thelypteris*.
- Norton, J. B. S., & Chen, C. C.** Some methods for investigating internal seed infection. Phytopathology **10**: 399-400. 2 S 1920.

- O'Neal, C. E.** Microsporogenesis in *Datura Stramonium*. Bull. Torrey Club **47**: 231-241. *pl.* 8-9. 23 Je 1920.
- Pascher, A.** Eine Bemerkung über die Zusammensetzung des Phytoplanktons des Meeres. Biol. Zentralbl. **37**: 312-315. 30 Je 1920.
- Peltier, G. L., & Frederich, W. J.** Relative susceptibility to *Citrus*-cankers of different species and hybrids of the genus *Citrus*, including the wild relatives. Jour. Agr. Research **19**: 339-362. *pl.* 57-68. 15 Jl 1920.
- Pilger, R.** Die Taxales. Mitteil. Deutsch. Dendr. Ges. **25**: 1-30. *pl.* 1-10. 1916.
- Purdy, C.** Pacific Coast lilies and their culture. Jour. Internat. Gard. Club **3**: 497-532. 1920. [Illust.]
- Reed, G. M., & Duncan, G. H.** Flag smut and take-all. Univ. Illinois Agr. Exp. Sta. Circ. 242: 1-4. *f.* 1. Jl 1920.
- Rehder, A.** New species, varieties and combinations from the herbarium and the collections of the Arnold Arboretum (*con.*) Jour. Arnold Arb. **1**: 121-146. 20 N 1919; **1**: 191-210. 23 F 1920; **1**: 254-263. 5 My 1920.  
Includes *Fendlera linearis*, sp. nov., from Mexico and several American varieties and forms in various genera.
- Renner, O.** Zur Terminologie des pflanzlichen Generationswechsels. Biol. Zentralbl. **36**: 337-374. 20 Au 1916.
- Riddle, L. W.** Observations on the genus *Acrospermum*. Mycologia **12**: 175-181. *pl.* 11. 7 Au 1920.  
Includes *A. Maxoni* Farlow, sp. nov.
- Roberts, H. F.** The relation of protein content to variety types in American wheat. Jour. Agr. Sci. **10**: 121-134. 9 Jl 1920.
- Roberts, J. W.** The apple-blotch and bitter-rot cankers. Phytopathology **10**: 353-357. 18 Au 1920.
- Romell, L.** Hårarifrån kommer det bruna pulvret a öfre sidan af *Polyporus applanatus* och andra *Ganoderma*-arter? [with English summary] Sv. Bot. Tidsk. **10**: 341-348. 1916.
- Saccardo, P. A.** Notae Mycologicae, ser. XXIX. Micromycetes dakotenses et utahenses a Doct. J. F. Brenckle lecti et communicati. Mycologia **12**: 199-205. 7 Au 1920.  
Includes *Phaeotrype*, gen. nov., and 9 new species in various genera.
- Sargent, C. S.** Notes on North American trees—VI. Jour. Arnold Arb. **1**: 245-254. Ap 1920.  
Describes several new species and varieties in *Crataegus*.
- St. John, H.** *Trillium rectistamineum*, a valid species of the south-eastern United States. Rhodora **22**: 78-79. 18 Je 1920.

- Schlechter, R.** Die Orchideenfloren der südamerikanischen Kordillerenstaaten, I. Venezuela. Rep. Spec. Nov. Regn. Veg. **6**: 1-100. 15 O 1919.  
Includes 30 new species in various genera. Also contains a summary of botanical collectors in Venezuela.
- Schley, E. O.** Geo-presentation and geo-reaction. Bot. Gaz. **70**: 69-81. f. 1-5. 24 Jl 1920.
- Schmitz, H.** The present trend of forest pathology. Idaho For. 1920: 13-17. 1920.
- Schmitz, H.** Shoe-string root rot of *Rhododendron* and *Azalea* caused by *Armillaria mellea* Vahl. Phytopathology **10**: 375. f. 1. 18 Au 1920.
- Schneider, C.** Notes on American willows. VII. Jour. Arnold Arb. **1**: 147-171. 23 F 1920; VIII. **1**: 211-232. 5 My 1920.  
*Salix orestera*, sp. nov., from California.
- Setchell, W. A.** The temperature interval in the geographical distribution of marine Algae. Science II. **52**: 187-190. 27 Au 1920.
- Setchell, W. A., & Gardner, N. L.** The marine Algae of the Pacific coast of North America. II. Chlorophyceae. Univ. Calif. Publ. Bot. **8**: 139-379. pl. 9-33. 14 Jl 1920.
- Setchell, W. A., & Gardner, N. L.** Phycological contributions. I. Univ. Calif. Publ. Bot. **7**: 279-324. pl. 21-31. 8 Jl 1920.  
Includes 1 new genus and 15 new species of Algae.
- Skottsberg, C.** Zur Morphologie und Systematik der Gattung *Arjona* Cav. Sv. Bot. Tidskr. **10**: 520-528. f. 1-3. 1916.
- Snell, W. H.** Observations on the distance of spread of aeciospores and urediniospores of *Cronartium ribicola*. Phytopathology **10**: 358-364. 13 Au 1920.
- Standley, P. C.** *Stachys lanata* in Ontario. Rhodora **22**: 128. 3 Au 1920.
- Stapf, O.** *Ribes niveum*. Bot. Mag. pl. 8849. 1920.
- Stevens, O. A.** Uses of plants by the Indians. Science II. **52**: 99-101. 30 Jl 1920.
- Stevenson, J. L.** Enfermedades del citro en Puerto Rico. Rev. Agr. Puerto Rico **4**<sup>6</sup>: 9-19. Je 1920.
- Stomps, T. J.** Über zwei Typen von Weissrandbund bei *Oenothera biennis* L. Zeitsch. Ind. Abst.- und Vererbungslehre **22**: 261-274. My 1920.
- Stomps, T. S.** Über die verschiedenen Zustände der Pangene. Biol. Zentralbl. **37**: 161-177. 30 Ap 1920.